

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	122	(uchida near3 tsuyoshi)   (nakayama near4 takanori)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/18 07:40
S2	183	(positive near3 (gr\$1y\$1scale   (gr \$1y adj1 scale)) near4 voltage)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/16 12:45
S3	174	(negative near3 (gr\$1y\$1scale   (gr \$1y adj1 scale)) near4 voltage)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/16 12:45
S4	159	S2 & S3	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/15 19:07
S5	140429	((counter   oppos\$3) near4 electrode)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/16 12:46
S6	83	S4 & S5	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/15 18:48
S7	23852	(amplitude\$1 near5 (video   image   data) near4 signal\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/15 20:00
S8	9	S6 & S7	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/15 19:03
S9	1	S2 same S3 same S7	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/15 18:50
S10	471730	(reference near4 (signal   voltage))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/15 19:53
S11	9	S2 & S3 & S7 & S10	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/15 19:08
S12	0	S11 not S8	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/15 19:12
S13	52	S2 same S3 same S10	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/15 19:51
S14	7	S7 & S13	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/15 19:51
S15	1173	S5 with S10	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/15 19:54
S16	3	S2 same S3 same S15	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/15 19:54

S17	1	S7 & S16	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/15 19:54
S18	556274	((reference   common) near4 (signal   voltage))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/15 19:54
S19	2595	S5 with S18	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/15 19:54
S20	4	S2 same S3 same S19	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/15 19:56
S21	1	S7 & S20	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/15 19:54
S22	87	S2 same S3 same S18	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/15 20:01
S23	7	S5 & S7 & S22	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/15 19:57
S24	34872	((video   image   data) near4 signal \$1) with range)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/15 20:02
S25	1	S2 same S3 same S18 same S24	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/15 20:02
S26	1148048	((video   image   data) near4 signal \$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/15 20:02
S27	14	S2 same S3 same S18 same S26	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/15 20:05
S28	352	(positive near3 (gr\$1y\$1scale   (gr \$1y adj1 scale)   gradation) near4 voltage\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/16 12:45
S29	344	(negative near3 (gr\$1y\$1scale   (gr \$1y adj1 scale)   gradation) near4 voltage\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/16 12:51
S30	23852	(amplitude\$1 near5 (video   image   data) near4 signal\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/16 13:54
S31	34872	((video   image   data) near4 signal \$1) with range)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/16 12:46
S32	1148048	((video   image   data) near4 signal \$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/16 12:46
S33	190551	((counter   oppos\$3   common) near4 electrode)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/16 12:47
S34	3	S28 same S29 same S30	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/16 13:02

S35	1530	(average near3 (gr\$1y\$1scale   (gr \$1y adj1 scale)   gradation))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/16 13:00
S36	3	S30 same S35	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/16 13:00
S37	2	S28 same S29 same S36	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/16 13:02
S38	7	(S28 same S29) & S35 & S32	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/16 13:03
S39	3	S30 same S35	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/16 13:55
S40	28945	((amplitude\$1   magnitude) near5 (video   image   data) near4 signal \$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/16 16:10
S41	3	S35 same S40	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/16 13:55
S42	15675	(center near4 voltage\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/16 14:34
S43	1409	((diagram   wave\$1form) same (center near4 voltage))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/16 14:34
S44	115235	(gray\$1scale   (gray adj2 (scale   value))   gradation)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/16 16:49
S45	16	S43 same S44	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/16 14:17
S46	5166	((gray\$1scale   (gray adj2 (scale   value))   gradation) with (wave \$1form   diagram   graph))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/16 14:18
S47	3379	((gray\$1scale   (gray adj2 (scale   value))   gradation) near5 (wave \$1form   diagram   graph))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/16 14:18
S48	87	((gray\$1scale   (gray adj2 (scale   value))   gradation) with (wave \$1form   diagram   graph) with (magnitude   amplitude))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/16 14:31
S49	2	(average near5 ((gray\$1scale   (gray adj2 (scale   value))   gradation)) with (wave\$1form   diagram   graph) with (magnitude   amplitude))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/16 14:32
S50	663	((diagram   wave\$1form   graph) with (center near4 voltage))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/16 14:34
S51	3680	((average   amplitude   magnitude) near5 (gray\$1scale   (gray adj2 (scale   value))   gradation))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/16 14:35
S52	1	S50 same S51	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/16 14:36

S53	11	S50 & S51	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/16 14:36
S54	13555	((alter\$3   chang\$3   modify\$3   adjust\$3) near4 ((center near4 voltage)   gr\$1y\$1scale   (gr\$1y near3 (scale   value))   gradation))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/16 16:10
S55	51506	((amplitude\$1   magnitude) near5 (video   image   data) near4 (signal \$1   data))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/16 16:56
S56	74	S54 same S55	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/16 16:26
S57	51	S54 with S55	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/16 16:22
S58	23	S56 not S57	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/16 16:23
S59	1637	((amplitude\$1   magnitude) near5 (video   image   data) near4 (signal \$1   data) near5 range)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/16 16:25
S60	5	S54 same S59	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/16 16:47
S61	2828	345/89,690.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/16 16:48
S62	7507	((increas\$3   decreas\$3) near6 (gr\$1y \$1scale   (gr\$1y adj2 (scale   value))   gradation))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/16 16:53
S63	567	S61 & S62	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/16 16:51
S64	3422794	(wave\$1form   diagram   graph)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/16 16:52
S65	396	S62 same S64	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/16 16:52
S66	69	S61 & S65	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/16 16:52
S67	6365	(increas\$3 near6 (gr\$1y\$1scale   (gr \$1y adj2 (scale   value))   gradation))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/16 16:55
S68	2329	(decreas\$3 near6 (gr\$1y\$1scale   (gr \$1y adj2 (scale   value))   gradation))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/16 16:55
S69	898	S67 same S68	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/16 16:54
S70	119	S61 & S69	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/16 16:54

S71	6822	(increas\$3 near6 (gr\$1y\$1scale   (gr \$1y adj2 (scale   value))   gradation   (voltage\$1 near4 center)))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/16 16:55
S72	2614	(decreas\$3 near6 (gr\$1y\$1scale   (gr \$1y adj2 (scale   value))   gradation   (voltage\$1 near4 center)))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/17 10:40
S73	95	S55 & (S71 same S72)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/16 16:56
S74	22	S61 & S73	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/16 16:56
S75	11	("20020163524"   "20020180680"   "5627457"   "5686934"   "6046719"   "6225992"   "6275209"   "6304255"   "6633271").PN. OR ("7023458").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/01/17 10:04
S76	10	("20020163524"   "20020180680"   "5627457"   "5686932"   "5686934"   "6046719"   "6225992"   "6275209"   "6304255"   "6633271").PN. OR ("7193637").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/01/17 10:06
S77	19	((decreas\$3 same increase) same (average near6 (gr\$1y\$1scale   (gr \$1y adj2 (scale   value))   gradation)))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/17 10:50
S78	247	((decreas\$3 same increase) same (center near4 voltage\$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/17 10:54
S79	1638	((amplitude\$1   magnitude) near5 (video   image   data) near4 (signal \$1   data) near5 range)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/17 15:33
S80	6565	((decreas\$3 same increase) same (average near6 (gr\$1y\$1scale   (gr \$1y adj2 (scale   value))   gradation)   gradient))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/17 15:21
S81	94	((decreas\$3 same increase) same (average near6 (gr\$1y\$1scale   (gr \$1y adj2 (scale   value))   gradation   gradient)))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/17 15:47
S82	252	S79 & "94"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/17 10:52
S83	1	S79 & S81	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/17 10:52
S84	2832	345/89,690.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/17 10:52
S85	3	S82 & S84	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/17 10:53
S86	1	S78 & S79	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/17 10:54

S87	1	S78 & S84	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/17 10:54
S88	623	((alter\$3   chang\$3   adjust\$4 )with (average near6 (gr\$1y\$1scale   (gr \$1y adj2 (scale   value))   gradation   gradient)))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/17 15:28
S89	1	S79 same S88	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/17 13:26
S90	1	S79 &20	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/17 13:26
S91	1	S79 & S88	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/17 13:26
S92	623	((alter\$3   chang\$3   adjust\$4) with (average near6 (gr\$1y\$1scale   (gr \$1y adj2 (scale   value))   gradation   gradient)))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/17 13:27
S93	1988	((alter\$3   chang\$3   adjust\$4) with (center near4 voltage\$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/17 13:28
S94	2	S79 same S93	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/17 13:49
S95	511	((over\$1driv\$3   (over near3 driv\$3   shoot\$3)) with (gr\$1y\$1scale   (gr \$1y near3 (scale   value))   gradient   gradation   (center near3 voltage \$1)))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/17 14:18
S96	41	S84 & S95	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/17 13:53
S97	11	((over\$1driv\$3   (over near3 driv\$3   shoot\$3)) with average with (gr\$1y \$1scale   (gr\$1y near3 (scale   value))   gradient   gradation))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/17 14:17
S98	4	((over\$1driv\$3   (over near3 (driv\$3   shoot\$3))) with average with (gr\$1y \$1scale   (gr\$1y near3 (scale   value))   gradient   gradation))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/17 14:18
S99	340	((over\$1driv\$3   (over near3 (driv\$3   shoot\$3))) with (gr\$1y\$1scale   (gr \$1y near3 (scale   value))   gradient   gradation   (center near3 voltage \$1)))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/17 14:23
S100	301	S99 not S96	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/17 14:21
S101	338	((over\$1driv\$3   (over near3 (driv\$3   shoot\$3))) with (gr\$1y\$1scale   (gr \$1y near3 (scale   value))   gradient   gradation))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/17 14:28

S102	299	S101 not S96	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/17 14:23
S103	2	((over\$1driv\$3   (over near3 (driv\$3   shoot\$3))) with (center near3 voltage\$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/17 14:23
S104	213	((over\$1driv\$3   (over near3 (driv\$3   shoot\$3))) with (gr\$1y\$1scale   (gr \$1y near3 (scale   value))   gradation))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/17 15:14
S105	23819	((increas\$3   enhanc\$3) near4 (response near4 (speed   time)))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/17 15:17
S106	6	S78 & S105	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/17 15:16
S107	37	S101 & S105	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/17 15:21
S108	66	S80 & S105	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/17 15:22
S109	19	((decreas\$3 same increase) same (average near6 (gr\$1y\$1scale   (gr \$1y adj2 (scale   value))   gradation)))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/17 15:21
S110	1448	((decreas\$3 same increase) same (gr \$1y\$1scale   (gr\$1y adj2 (scale   value))   gradation))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/17 15:22
S111	43	S105 & S110	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/17 15:22
S112	326	((alter\$3   chang\$3   adjust\$4 )with (average near6 (gr\$1y\$1scale   (gr \$1y adj2 (scale   value))   gradation)))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/17 15:33
S113	2	S105 & S112	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/17 15:33
S114	20971	((alter\$3   chang\$3   adjust\$4 )with ((gr\$1y\$1scale   (gr\$1y adj2 (scale   value))   gradation)))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/17 15:33
S115	278	S105 & S114	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/17 15:34
S116	51554	((amplitude\$1   magnitude) near5 (video   image   data) near4 (signal \$1   data))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/17 15:34
S117	45	S105 & S114 & S116	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/17 15:42
S118	0	increase with average with gr\$1scale with (ris\$3 near3 time)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/17 15:59

S119	0	increase with average with gr\$1y \$1scale with (ris\$3 near3 time)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/17 15:44
S120	1	increase with gr\$1y\$1scale with (ris \$3 near3 time)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/17 15:45
S121	0	increase with (center near4 voltage1) with (ris\$3 near3 time)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/17 15:45
S122	0	increase with (center near4 voltage \$1) with (ris\$3 near3 time)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/17 15:45
S123	0	speed\$3 with (center near4 voltage \$1) with (ris\$3 near3 time)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/17 15:45
S124	2	speed\$3 with gr\$1y\$1scale with (ris \$3 near3 time)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/17 15:47
S125	233561	(amplitude near4 (signal\$1   data \$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/17 15:48
S126	124866	((gr\$1y\$1scale   (gr\$1y adj2 (scale   value))   gradation))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/17 15:50
S127	1248	S125 same S126	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/17 15:49
S128	28100	(amplitude with ((image   video   data) near4 signal))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/17 15:49
S129	18155	(amplitude near4 ((image   video   data) near4 signal))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/17 15:53
S130	273	S126 same S129	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/17 15:52
S131	9978558	(chang\$3   increas\$3   decreas\$3   adjust\$4   alter\$3   modify\$3 near6 (gr\$1y\$1scale   (gr\$1y adj2 (scale   value))   gradation))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/17 15:51
S132	5805	S129 same S131	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/17 15:52
S133	36	S84 & S132	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/17 16:00
S134	13208	((increas\$3   speed\$3) with (ris\$3 near3 time))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/17 15:59
S135	53	S132 & S134	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/17 16:09
S136	4	((average with (gr\$1yscale   (gr\$1y near3 scale))) & ((amplitude   magnitude) with ((image   video   data) near4 signal\$1))).clm.	US-PGPUB	OR	OFF	2008/01/17 16:11



S137	3879	((increas\$3 same decreas\$3) same (gr\$1y\$1scale   (gr\$1y near3 (scale   value\$1))   gradation))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/18 08:05
S138	14867	((increas\$3 same decreas\$3) same ((common   reference) near4 voltage \$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/18 08:12
S139	242945	((counter   common   oppos\$3) near4 electrode\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/18 07:43
S140	49	S137 & (S138 same S139)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/18 08:01
S141	500	((increas\$3 same decreas\$3) same (center near3 voltage\$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/18 08:01
S142	10	S141 & (S138 same S139)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/18 08:01
S143	35109	((increas\$3 same decreas\$3   alter\$3   chang\$3   adjust\$4   modify\$3) same (gr\$1y\$1scale   (gr\$1y near3 (scale   value\$1))   gradation))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/18 08:11
S144	291408	((common   reference) near4 voltage \$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/18 08:07
S145	231	S139 same S143 same S144	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/18 08:08
S146	202	S145 not S140	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/18 08:08
S147	263728	(signal near4 (magnitude   amplitude))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/18 08:22
S148	14	S139 same S143 same S144 same S147	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/18 08:11
S149	44367	((increas\$3   decreas\$3   alter\$3   chang\$3   adjust\$4   modify\$3) same (gr\$1y\$1scale   (gr\$1y near3 (scale   value\$1))   gradation))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/18 10:11
S150	18	S139 same S149 same S144 same S147	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/18 08:13
S151	4	S150 not S148	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/18 08:11
S152	105324	((increas\$3   decreas\$3   alter\$3   chang\$3   adjust\$4   modify\$3) same ((common   reference) near4 voltage\$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/18 08:13
S153	105	S139 same S152 same S144 same S147	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/18 08:13

S154	87	S153 not (S151   S148   S142)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/18 08:13
S155	19190	((signal near4 (magnitude   amplitude)) with (((min   minimum   low\$3) & (max   maximum   high \$3))   (white & black)))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/18 10:07
S156	506	S149 & S155	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/18 08:24
S157	109	S139 & S156	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/18 08:25
S158	90036	"345"/\$.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/18 08:25
S159	65	S157 & S158	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/18 08:25
S160	6	("5398043"   "5686932"   "6359607"   "6417906").PN. OR ("6570549").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/01/18 08:42
S161	30749	((source   data   video   image) near4 signal\$1 near4 (magnitude   amplitude))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/18 09:55
S162	5228595	((min   minimum   low\$3) & (max   maximum   high\$3))   (white & black))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/18 10:08
S163	3043327	((min   minimum   low\$3) with (max   maximum   high\$3))   (white & black))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/18 10:09
S164	3800520	((min   minimum   low\$3) same (max   maximum   high\$3))   (white & black))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/18 12:03
S165	17772	S161 & S163	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/18 10:10
S166	1058	S149 & S165	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/18 10:11
S167	4385145	((min   minimum   low\$3   white   black) same (max   maximum   high \$3   white   black))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/18 12:04
S168	52	S149 same S161 same S167	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/18 12:18
S169	123	S152 same S161 same S167	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/18 12:18
S170	1298	((gray near scale)   (gradation)) same (reference near voltage)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/18 16:47
S171	2832	345/89,690.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/18 17:22

S172	229	S170 & S171	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/18 16:47
S173	4	((average with (gr\$1yscale   (gr\$1y near3 scale))) & ((amplitude   magnitude) with ((image   video   data) near4 signal\$1))).clm.	US-PGPUB	OR	OFF	2008/01/18 16:49
S174	4	((average with (gr\$1yscale   (gr\$1y near3 scale))) & ((amplitude   magnitude) with ((image   video   data) near4 signal\$1))).clm.	US-PGPUB	OR	OFF	2008/01/18 16:49
S175	4	((average with (gr\$1y\$1scale   (gr \$1y near3 scale))) & ((amplitude   magnitude) with ((image   video   data) near4 signal\$1))).clm.	US-PGPUB	OR	OFF	2008/01/18 16:50
S176	38	((gr\$1y\$1scale   (gr\$1y near3 scale))) & ((amplitude   magnitude) with ((image   video   data) near4 signal\$1))).clm.	US-PGPUB	OR	OFF	2008/01/18 17:01
S177	0	"5940058".pn.	US-PGPUB	OR	OFF	2008/01/18 17:01
S178	2	"5940058".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/18 17:01
S179	8184	345/87,89,94,96,209,690.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/18 17:23
S180	553288	((video   image) near4 signal\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/28 17:57
S181	61945	(pixel near4 electrode\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/28 17:57
S182	51534	(counter near4 electrode\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/28 18:01
S183	340678	(reference near4 signal\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/28 18:27
S184	960	(positive near4 (gray\$1scale   (gray near3 scale\$1)   gradation))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/28 17:58
S185	1138	(negative near4 (gray\$1scale   (gray near3 scale\$1)   gradation))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/28 18:04
S186	5421	(S180 with S181)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/28 17:59
S187	267	S182 with S183	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/28 18:19
S188	122	S186 same S187	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/28 18:02

S189	3	S184 & S185 & S188	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/28 18:02
S190	187580	((counter   oppos\$3) near4 electrode \$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/31 15:18
S191	419	S190 with S183	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/28 18:10
S192	137	S186 same S191	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/28 18:10
S193	4	S184 & S185 & S192	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/28 18:04
S194	1684	(average near4 (gray\$1scale   (gray near3 scale\$1)   gradation))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/28 18:04
S195	2260	(S184 & S185)   S194	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/28 18:05
S196	4	S192 & S195	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/28 18:11
S197	243411	((counter   oppos\$3   common) near4 electrode\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/28 18:10
S198	747	S197 with S183	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/28 18:12
S199	149	S186 same S198	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/28 18:10
S200	5	S199 & S195	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/28 18:11
S201	1339	S197 same S183	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/28 18:12
S202	21	S186 & S201 & S195	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/28 18:13
S203	397	S182 same S183	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/28 18:19
S204	184	S186 & S203	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/28 18:22
S205	2	S194 & S204	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/28 18:22
S206	10	S195 & S204	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/28 18:26

S207	436666	((reference   counter) near4 signal\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/28 18:27
S208	2169	(S182 with S207)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/28 18:27
S209	404	S186 same S208	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/28 18:31
S210	14	S195 & S209	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/28 18:30
S211	2333	S190 with S207	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/28 18:31
S212	423	S186 same S211	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/28 18:31
S213	15	S195 & S212	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/28 18:31
S214	1	S213 not S210	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/28 18:31
S215	243748	((counter   oppos\$3   common) near4 electrode\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/31 15:19
S216	108861	((pixel   display) near4 electrode\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/31 15:19
S217	553953	((video   image) near4 signal\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/31 15:20
S218	341072	((reference) near4 signal\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/31 15:43
S219	748	S215 with S218	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/31 15:43
S220	6564	S216 with S217	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/31 15:20
S221	153	S219 same S220	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/31 15:20
S222	122307	(gr\$1y\$1scale   (gr\$1y near4 scale)   gradation)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/31 15:21
S223	153	S221 & S221	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/31 15:21
S224	35	S221 & S222	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/31 15:24

S225	514632	((reference   counter   common) near4 signal\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/31 16:21
S226	8483	S215 with S225	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/31 15:43
S227	855	S220 same S226	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/31 15:44
S228	211	S222 & S227	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/31 15:44
S229	369802	pixel	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/31 15:44
S230	433366	pixel\$1	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/31 15:44
S231	811	S220 same S226 same S230	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/31 15:44
S232	211	S222 & S227	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/31 15:44
S233	198	S222 & S231	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/31 15:45
S234	32	S222 same S231	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/31 15:45
S235	306213	((reference   counter   common) near4 voltage\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/31 16:21
S236	18057	S215 with S235	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/31 16:21
S237	657	S220 same S236	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/31 16:22
S238	623	S230 same S237	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/31 16:22
S239	4909155	referenc\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/31 16:22
S240	189	S238 same S239	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/31 16:23
S241	66	S222 & S240	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/01/31 16:23
S242	312419	((reference   counter   common) near4 voltage\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/05/29 15:57

S243	523322	((reference   counter   common) near4 signal\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/05/29 15:57
S244	250340	((counter   oppos\$3   common) near4 electrode\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/05/29 15:57
S245	114027	((pixel   display) near4 electrode\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/05/29 15:57
S246	566860	((video   image) near4 signal\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/05/29 15:57
S247	6795	S245 with S246	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/05/29 15:57
S248	126485	(gr\$1y\$1scale   (gr\$1y near4 scale)   gradation)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/05/29 15:57
S249	8769	S244 with S243	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/05/29 15:57
S250	892	S247 same S249	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/05/29 15:57
S251	225	S248 & S250	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/05/29 15:57
S252	566860	((video   image) near4 signal\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/05/29 15:57
S253	65706	(pixel near4 electrode\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/05/29 15:57
S254	1020	(positive near4 (gray\$1scale   (gray near3 scale\$1)   gradation))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/05/29 15:57
S255	1188	(negative near4 (gray\$1scale   (gray near3 scale\$1)   gradation))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/05/29 15:57
S256	5674	(S252 with S253)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/05/29 15:57
S257	192369	((counter   oppos\$3) near4 electrode\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/05/29 15:57
S258	1790	(average near4 (gray\$1scale   (gray near3 scale\$1)   gradation))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/05/29 15:57
S259	2406	(S254 & S255)   S258	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/05/29 15:57
S260	443686	((reference   counter) near4 signal\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/05/29 15:57

S261	2399	S257 with S260	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/05/29 15:57
S262	436	S256 same S261	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/05/29 15:57
S263	15	S259 & S262	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/05/29 15:57
S264	24356	(amplitude\$1 near5 (video   image   data) near4 signal\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/05/29 15:58
S265	1631	(average near3 (gr\$1y\$1scale   (gr \$1y adj1 scale)   gradation))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/05/29 15:58
S266	3	S264 same S265	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/05/29 15:58
S267	0	increase with average with gr\$1scale with (ris\$3 near3 time)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/05/29 15:59
S268	4	((average with (gr\$1yscale   (gr\$1y near3 scale))) & ((amplitude   magnitude) with ((image   video   data) near4 signal\$1))).clm.	US-PGPUB	OR	OFF	2008/05/29 16:00
S269	4	((average with (gr\$1yscale   (gr\$1y near3 scale))) & ((amplitude   magnitude) with ((image   video   data) near4 signal\$1))).clm.	US-PGPUB	OR	OFF	2008/05/29 16:00
S270	4	((average with (gr\$1y\$1scale   (gr \$1y near3 scale))) & ((amplitude   magnitude) with ((image   video   data) near4 signal\$1))).clm.	US-PGPUB	OR	OFF	2008/05/29 16:00
S271	4	((average with (gr\$1y\$1scale   (gr \$1y near3 scale))) & ((amplitude   magnitude) with ((image   video   data) near4 signal\$1))).clm.	US-PGPUB	OR	OFF	2008/05/29 16:00
S272	8581	345/87,89,94,96,209,690.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/05/29 16:09
S273	4	((average with (gr\$1yscale   (gr\$1y near3 scale))) & ((amplitude   magnitude) with ((image   video   data) near4 signal\$1))).clm.	US-PGPUB	OR	OFF	2008/05/29 16:09
S274	4	((average with (gr\$1yscale   (gr\$1y near3 scale))) & ((amplitude   magnitude) with ((image   video   data) near4 signal\$1))).clm.	US-PGPUB	OR	OFF	2008/05/29 16:09
S275	4	((average with (gr\$1y\$1scale   (gr \$1y near3 scale))) & ((amplitude   magnitude) with ((image   video   data) near4 signal\$1))).clm.	US-PGPUB	OR	OFF	2008/05/29 16:09
S276	4	((average with (gr\$1y\$1scale   (gr \$1y near3 scale))) & ((amplitude   magnitude) with ((image   video   data) near4 signal\$1))).clm.	US-PGPUB	OR	OFF	2008/05/29 16:09



S277	41	(((gr\$1y\$1scale   (gr\$1y near3 scale))) & ((amplitude   magnitude) with ((image   video   data) near4 signal\$1))).clm.	US-PGPUB	OR	OFF	2008/05/29 16:10
S278	41	S273   S274   S275   S276   S277	US-PGPUB	OR	OFF	2008/05/29 16:10
S279	6	S272 & S278	US-PGPUB	OR	OFF	2008/05/29 16:10

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